

**CLAIMS**

1. A method for enhancement of audio source coding systems using high frequency reconstruction,  
**characterised by:**

5            adaptively over time selecting different methods for high frequency generation, based on whether  
the signal being processed has a pulse-train-like character or a non-pulse-train-like character.

2. A method according to claim 1, **characterised in** that said selection is done based on analysis by peak  
picking in a time- and frequency-domain representation of said signal.

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3. A method according to claim 1, **characterised in** that said different methods for high frequency  
generation are frequency translation and FD transposition.

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4. A method according to claim 1, **characterised in** that said different methods for high frequency  
generation are FD transposition with different window sizes.

5. A method according to claim 1, **characterised in** that said different methods for high frequency  
generation are time-domain pulse train transposition and FD transposition.